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PUBLISHED BY AUTHORITY

सं० 47] नई दिल्ली, शनिवार, नवम्बर 24, 1979 (अग्राहायण 3, 1901)

No. 47] NEW DELHI, SATURDAY, NOVEMBER 24, 1979 (AGRAHAYANA 3, 1901)

इस भाग में भिन्न पृष्ठ संख्या दी जाती है जिससे कि यह अलग संकलन के रूप में रखा जा सके
Separate paging is given to this Part in order that it may be filed as a separate compilation.

भाग III—खण्ड 2

PART III—SECTION 2

पेटेंट कार्यालय द्वारा जारी की गई पेटेंटों और डिजाइनों से सम्बन्धित अधिसूचनाएं और नोटिस
Notifications and Notices issued by the Patent Office relating to Patents and Designs

THE PATENT OFFICE

PATENTS AND DESIGNS

Calcutta, the 24th November, 1979

CORRIGENDUM

In the Gazette of India, Part III, Section 2, dated the 1st September 1979 under the heading "Patents Scaled" delete 145206.

APPLICATION FOR PATENTS FILED AT THE HEAD OFFICE

The dates shown in crescent brackets are the dates claimed under Section 135 of the Act.

18th October, 1979

1083/Cal/79. L. R. Manderson and S. V. Manderson, Transformer cores. (October 19, 1978).

1084/Cal/79. Tokico Ltd. Hydraulic brake pressure control valve.

1085/Cal/79. Gould Inc. One piece battery side terminal connector.

1086/Cal/79. F. I. Du Pont De Nemours and Company. Process for the oxidation of titanium tetrachloride.

1087/Cal/79. Salgar Supplies Limited. Conveyor belt scraper. (October 20, 1978).

1088/Cal/79. Sredneazitsky Nauchno-Issledovatel'sky Institut Prirodnogo Gaza. Method of monitoring structural and mechanical properties of drilling mud and device for realising same.

19th October, 1979

1089/Cal/79. Firma Inplast Handelsgesellschaft MBH and Chemische Werke Huls Aktiengesellschaft. Hockey stick.

1090/Cal/79. Esmil B. V. Vacuum filter belt apparatus.

1091/Cal/79. Interlox Chemicals Limited. In-situ leaching. (October 21, 1978).

1092/Cal/79. Maschinenfabrik Rieter A.G. Inner ring for spinning ring.

1093/Cal/79. Westinghouse Electric Corporation. Light-activated P-I-N switch.

1094/Cal/79. Westinghouse Electric Corporation. Low voltage vacuum switch with plural conic shields about the contacts.

1095/Cal/79. Proizvodstvennoe Obiedinenie "Uralkhromatizatsiya" and Vsesojuzny Elektrotekhnicheskoy Institut Imeni V. I. Lenina. Drive mechanism for contractor of device for controlling voltage of transformers under load.

1096/Cal/79. Tata-Robins-Fraser Limited. Wagon clamping devices for wagon tippers.

22nd October, 1979

1097/Cal/79. Hoechst Aktiengesellschaft. Transparent polyvinyl butyral sheet and process for the manufacture thereof.

1098/Cal/79. United Technologies Corporation. Rate controlled directional solidification method and apparatus.

23rd October, 1979

1099/Cal/79. Union Explosivos Rio Tinto, S.A. Explosive compositions of the slurry type.

1100/Cal/79. Satake Engineering Co. Ltd. Apparatus for measuring moisture content of grain.

24th October, 1979

1101/Cal/79. Sanac Societa per Azioni Refrattari Argille e Caolini. Improved three-positions sliding discharge gate.

1102/Cal/79. Swiss Aluminium Ltd. Preparing aluminium hydroxide.

1103/Cal/79. Lucas Industries Limited. Liquid fuel injection pumping apparatus. (November 25, 1978).

1104/Cal/79. Zsidan Hojin Biseibustu Kagaku Kankyu Kai. The production of a selectively protected N-acylated derivative of an aminoglycosidic antibiotic.

APPLICATION FOR PATENT FILED AT THE (DELHI BRANCH)

3rd October, 1979

698/DEL/79. Sunkist Growers, INC., "Apparatus for Printing Indicia on Objects".

699/DEL/79. International Business Machines Corporation, "Low Concentration Trivalent Chromium Electroplating Solution and Process". (11th November, 1978; 29th June, 1979; & 18th September, 1979).

700/DEL/79. Council of Scientific & Industrial Research, "Improved Process for Sweetening of Petroleum distillates using Phthalocyanine Catalyst with Promoters".

701/DEL/79. Council of Scientific & Industrial Research, "Improved Method for making composite refractory materials and refractory products".

702/DEL/79. Council of Scientific & Industrial Research, "A Process for the reactive dyeing of cellulosic fibres by the application of 6-cyano-7-methyloxazolo (3, 2-*ab*)-5(4*H*)-one followed by treatment with diazonium salts".

703/DEL/79. Council of Scientific & Industrial Research, "A process for the preparation of New Yellow to Blue Azo Pyrid-2-one Pendant Cationic Dyes for Acrylic Fibres".

704/DEL/79. Council of Scientific & Industrial Research, "A process for the preparation of New Yellow to Red Azo Aryl Imidazopyridone Disperse Dyes for Synthetic Fibres".

4th October, 1979

705/DEL/79. Major Devindar Kumar retd., "An Indoor Game Device termed 'Traffic Jam'".

706/DEL/79. Major Devindar Kumar retd., "An Amusement Device" analogous to field games of Hockey/Foot Ball".

5th October, 1979

707/DEL/79. Bayer Aktiengesellschaft, "Process for the Preparation of Azo Dye-stuffs".

6th October, 1979

706/DEL/79. Fisons Limited, "Phosphatic Fertilizer." (October 7, 1978).

709/DEL/79. Pfizer Corporation, "Carboxylated cellulose ion-exchange materials, process for their preparation and their use in removing heavy metal ions from aqueous solutions". (October 11, 1978).

710/DEL/79. Produits Chimiques Ugine Kuhlmann, "Process for the Electrolytic Preparation of Alkali Chlorates".

ALTERATION OF DATE

147148.

222/Mas/76. } Post-dated November 16, 1977.

COMPLETE SPECIFICATION ACCEPTED

Notice is hereby given that any person interested in opposing the grant of patents on any of the applications concerned, may, at any time within four months of the date of this issue or within such further period not exceeding one month applied for on Form 14 prescribed under the Patents Rules, 1972 before the expiry of the said period of four months, give notice to the Controller of Patents on the prescribed Form 15, of such opposition. The written statement of opposition should be filed along with the said notice or within one month of its date as prescribed in Rule 36 of the Patents Rules, 1972.

"The classifications given below in respect of each specification are according to Indian Classification and International Classification."

A limited number of printed copies of the specifications listed below will be available for sale from the Government of India Book Depot, 8, Kiran Sankar Roy Road, Calcutta, in due course. The price of each specification is Rs. 2/- (postage extra if sent out of India). Requisition for the supply of the printed Specifications should be accompanied by the number of the specifications as shown in the following list.

Typed or photo copies of the specifications together with photo copies of the drawings, if any, can be supplied by the Patent Office, Calcutta on payment of the prescribed copying charges which may be ascertained on application to that office.

CLASS 131B.

147124

Int. Cl.-B25d 9/04.

A PNEUMATIC PERCUSSION HAMMER.

Applicant & Inventor : WILLIAM LISTER, OF 36 RABAU STREET, MOOROOKA, QUEENSLAND 4105, AUSTRALIA.

Application No. 363/Cal/77 filed March 11, 1977.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

2 Claims

A pneumatic percussion hammer for rock drilling including :

a tubular housing, a top sub connected to the top of the housing, adapted to be connected to, and to receive air under pressure from, a drill rod, a cylindrical air feed tube extending from the top sub coaxially into the housing, said tube being formed with holes adjacent the bottom thereof, said tube apart from said holes serving no valving function; a bit having a shank mounted for limited slidable movement in the lower end of the housing, an anvil on the bit shank, a bit air passage through the anvil, shank and bit, a sliding seal tube extending axially into the housing from the bit air passage, a piston reciprocally slidable in the housing and adapted to strike the anvil on its downstroke, a top pressure chamber in the housing near and above the top of the piston, a bottom chamber in the housing near and below the piston, a central pressure chamber in the housing at an intermediate part of the piston, an upper cylindrical, axial passage in the piston, said passage being slidably engaged with the air feed tube, a lower axial passage in the piston adapted, when the piston is on its down-stroke, to engage slidably with the sliding seal tube, pressure ports extending through the walls of said piston and communicating with said upper and lower axial passages, said ports being adapted to direct air under pressure from the upper axial passage of the piston to the top pressure chamber when the piston is in raised position, and to the bottom pressure chamber when the piston is in lowered position, and exhaust ports in the piston adapted to conduct air under pressure between the central chamber and the lower axial passage of the piston, and to conduct air, when the piston is lowered, from the central chamber to the top pressure chamber.

Comp. Specn. 9 Pages.

Drg. 1 Sheet.

CLASS 190B. 147125
Int. Cl.-F01d 5/30.

A PROCESS FOR MANUFACTURE OF BLADES FOR AXIAL-FLOW TURBO MACHINES.

Applicant : BBC BROWN, BOVERI & COMPANY LIMITED, OF BADEN, SWITZERLAND.

Inventor : ALFRED SCHWARZENBACH.

Application No. 1616/Cal/76 filed September 2, 1976.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

4 Claims

A process for manufacture of rotor blades and guide blades, particularly made of drawn blade material, for axial-flow thermal turbo machines, consisting of a profiled-vane, a mounting base and a cover plate, characterized by the following process steps :

- from the cover plate through material removal of profile contour similar to the profile of the blade has been kept overhanging on the surface facing the blade,
- the profile contours of the cover plate are joined to the blade by means of welding, whereby the surface of welding seam remains vertically towards profile face, even if the flow channel is inclined towards the blade outlet edge;
- the welding seams are levelled with the profile surface by fine machining, for instance by grinding,
- the drawn vanes are turned at the foot to a T-shape to enable them to be held in spacers.

Comp. Specn. 10 Pages.

Drg. 1 Sheet.

CLASS 90C. 147126
Int. Cl.-C03c 27/12, B32b 17/00, 17/04, 17/06.

LAMINATED SAFETY GLASS AND PROCESS FOR THE MANUFACTURE OF LAMINATED SAFETY GLASS.

Applicant : DYNAMIT NOBEL AKTIENGESELLSCHAFT, OF TROISDORF, BEZ. KOLN, WEST GERMANY.

Inventors : DR. ROLF BECKMANN AND WILHEIM KNACKSTEDT.

Application No. 1555/Cal/77 filed October 29, 1977.

Addition to No. 1894/Cal/76.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

69 Claims

A process for the manufacture of laminated safety glass comprising bonding one or more silicate glass sheets at a temperature of up to 200°C to an ethylene and/or propylene foil, as hereinbefore defined, bonding being assisted by means of a silicon organo-functional silane as hereinbefore defined and/or a silicon functional silane as hereinbefore defined, with the provisions that a solvent, when used, being removed after the application to the foil and/or glass sheet surface.

Comp. Specn. 63 Pages.

Drg. 1 Sheet.

CLASS 136E 147127
Int. cl.-B29d, 31/00.

METHOD OF MAKING FLAT ARTICLES OF A PLASTICS MATERIAL AND ARTICLES SO PREPARED.

Applicant : SAINT-GOBAIN INDUSTRIES OF 62 BOULEVARD VICTOR HUGO, 92209 NEUILLY SUR SEINE, FRANCE.

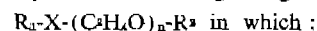
Inventors : AACHEN ORSBACH, HELMER READISCH, REINHOLD FUCHS AND GUNTHER FUCHS.

Application No. 239/Cal/78 filed March 6, 1978.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

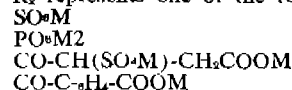
14 Claims. No drawings.

A method of making flat articles of a plastics material in which a smooth support surface such as silicate glass, plastics material of polished metal is coated with a separating agent, a fluid reaction medium or solution is applied to the coated surface and allowed to solidify to form the plastics material, and detaching the formed plastics material from the smooth support, the separating agent comprising an addition product of ethylene oxide having the general formula :



R_1 represents an alkyl residue containing 8 to 18 carbon atoms or an alkyl-aryl residue containing 6 to 12 carbon atoms in the lateral chain,

R_2 represents one of the following groups :



M being an alkali metal,

X represents one of the following groups :

O , NH , $CO-O$ or $CO-NH$

and n represents a whole number from 1 to 100.

Comp. Specn. 12 Pages.

Drags. Nil.

CLASS 127-A 147128
I.C. F16d 11/04.

"A CLUTCH UNIT FOR INTERNAL COMBUSTION ENGINES".

Applicant : RALLIS INDIA LIMITED, RALLIS HOUSE, REVELINE STREET, BOMBAY-1, MAHARASHTRA, INDIA.

Inventors : (1) PATTATHAMOGRU RATNAKARA BHAUDARY (2) LOXMINARAYANA SUNDARAM.

Application No. 337/BOM/1976 filed on 30th Jan. 1976.

Complete Specification left 21st March, 1977.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, Bombay.

6 Claims

A clutch unit for internal combustion engines comprising comprising a hollow clutch shaft with a clutch operating located inside the bore of the clutch shaft which consists of spacer clutch pin, ball, locating pin and clutch pin which operate to effect the engagement and disengagement of the clutch, the axial force upon the clutch plates being provided by a single spring mounted in a central position concentrically around the outer surface of the hollow clutch shaft, away from the clutch plates.

Provisional Specification 3 pages;

Complete Specification 6 pages;

Drawing 2 sheets.

CLASS 101F & 981 147129
Int. Cl. F03g 7/02 & F03b 13/12

A DEVICE FOR RUNNING A PRIME MOVER SUCH AS A TURBINE UTILIZING SOLAR ENERGY AND SEA WAVE ENERGY.

Applicant & Inventor : THIRUVENGADASWAMYVENKATACHALAM, 12-A, MARKET FEEDERS ROAD, RANIPET, NORTH ARCOT DISTRICT, TAMIL NADU.

Application No. 221/Mas/76 filed November 18, 1976.

Complete Specification left November 16, 1977.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.

9 Claims

A device for running a prime mover such a turbine utilizing solar energy and sea wave energy, comprising a boiler provided with a number of baffle-plates along its length, one end of said baffle plates being extended inside the boiler

while the other ends thereof are protruded outside, the axis of the boiler being adapted to be tilted and the boiler being adapted to be rotated along its axis in such a manner as to make the sun's rays fall on the said baffle plates at 90° throughout the day, the boiler provided with two inlets for letting in a liquid medium which is to be vaporized and an outlet for letting out the high pressure vapour to run a prime mover in a manner known per se; a conduit means for leading the energy spent vapour into a cooling coil for partial condensation of the said vapour; a further conduit means for introducing the said partially condensed vapour into a compressor for complete conversion of the partially condensed vapour into a compressor for complete conversion of the partially condensed vapour into liquid phase which is then recycled into the boiler through one of the two inlets provided therein; said compressor being actuated by a means operated by sea wave energy; and said means for actuating the compressor consists of a float kept on sea shore and which is moved upward during every shoreward movement of the waves and is moved downward when the water recedes back into the sea, the said upward and downward movement of the float being transmitted in a known manner to the piston rod of the compressor for actuating the piston thereof.

(Prov.—13 pages; Com.—11 pages; Drags.—4 sheets)

CLASS 94 C+G 49E.
Int. Cl. B02C 7/08

147130.

A PUVERISING DEVICE.

Applicant: UTILITY INDUSTRIES 118 A GOVERNMENT INDUSTRIAL ESTATE KANDIVLI (W), BOMBAY-67. MAHARASHTRA, INDIA.

Name of Inventor: RASIKLAL JESINGLAL SHAH.

Application No. 202/Bom/77 filed on June 23, 1977.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules 1972) Patent Office Bombay Branch.

5 Claims

1. A device for pulverising or granulating relatively hard material comprising a vessel having varying cross section from its mouth to its vessel, said vessel serving as a hopper for retaining the material to be ground; there being provided within the vessel (i) pulverising means consisting of a rotating assembly of a apring loaded pear shaped vane and a handle to rotate said disc and means for locking the rotating assembly within the vessel and; (ii) means for removably fixing a sieve at the base of the vessel below the said rotating pear shaped vane.

Complete Specn. 7 pages. Drawing 1 sheet.

CLASS 25 B+C+D and 178.
I.C. B28d 1/00.

147131.

A METHOD OF CUTTING MARBLE BLOCK TO FORM FLOORING TILES AND THE LIKE.

Applicants: JAGDISHCHANDRA CHAMPAKLAL PAREKH, PAREKH MARKET 39 KENNEDY BRIDGE BOMBAY-400 004, MAHARASHTRA STATE, INDIA.

Application No. 150/Bom/78 filed on April 14, 1978.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules 1972) Patent Office Branch, Bombay.

15 Claims

1. A method of cutting marble block or any type of stone block into flooring tiles or tiles for covering the interior and exterior walls and other surfaces of any building or like structure consists of the following stages wherein.

1. in the first stage a marble block or the block of any stone to be cut into tiles and substantially square or rectangular in shape is marked to determine the thickness required for each of the slab cut from said block wherein the thickness of each of said slab is preferably less than 1".

2. in the second stage the block or the block of any stone of stage 1 is cut and slid in the directions of the marble veins into square or rectangular shaped slabs each

having a uniform thickness of between 1/8" to 3/8" but in any event it is less than 3/4".

3. in the third stage the marble slab of stage 2 is marked by vertical lines to form substantially rectangular shaped sections wherein the width of each section is between 1" to 11".

4. in the fourth stage the marble slab of stage 3 is sliced along marking lines into predetermined sections wherein each section has a thickness of less than 3/4" and width varying from 1" to 11".

5. in the fifth stage the marble section of stage 4 is marked by longitudinal lines to form substantially square or rectangular shaped tiles of smaller dimensions;

6. in the sixth stage the marked marble sections of stage 5 are further cut along the marking lines to form tiles of smaller dimensions and

7. in the seventh stage the cut tiles of smaller dimensions of stage 6 are either number and packed into crates for despatch to their respective destinations or the front face of each of said tiles of stage 6 are adhesively stuck to a cardboard or the like to form a rectangular or square shaped tile of 12"×12 or 18"×18" each having the vein pattern identical to the original vein design or pattern on the marble block and the rear face of each of said tiles is numbered for easy and quick identification, and these cardboards or the like carrying a series of smaller dimensions tiles adhesively stuck are packed into crates and despatched to their respective destinations.

Complete specn. 15 pages and 2 drawing sheets.

CLASS : 36A1
I.C. F01d 25/24.

147132

"A MONOBLOCK CENTRIFUGAL PUMPSET".

Name of the Applicant: KIRLOSKAR OIL ENGINES LIMITED, LAXMANRAO KIRLOSKAR ROAD, PUNE-411003, MAHARASHTRA, INDIA.

Application No. 187/BOM/1978 filed June 22, 1978.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, Bombay.

5 Claims

A monoblock centrifugal pump set comprising means for preventing leakage of fluid through the annular chamber defined by the impeller disc backside, the diffuser casing and the impeller hub, the said means comprising a plurality of vanes provided on the impeller disc backside, one or more holes provided through the impeller disc at an inclination and one or more annular seals each having a sealing lip and a seal body.

(complete specification—8 pages; drawing sheets—5 pages).

CLASS 102 B+195 D+E
I.C. F15c 4/00.

147133

DISPLACEMENT MACHINE

Name of the Applicants: CRESCENT AGENCIES PRIVATE LIMITED, BEAUMON CHAMBERS, 27/33, NAGINDAS MASTER ROAD, BOMBAY-400 023, MAHARASHTRA, INDIA.

Inventors: HEINRICH GUTTINGER.

Application No. 195/Bom/78 filed June 30, 1978.

Appropriate office for opposition proceedings (Rule, 4, Patents Rules 1972) Patent office Branch, Bombay.

8 Claims

1. A displacement machine comprising a displacement chamber subdivided into at least two series connected consecutively arranged chamber sections, each of said chamber sections being bounded by an outer and inner substantially cylindrical jacket sector and by two substantially planar closure surfaces, a displacement device arranged for carrying out a

revolving movement and having a respective substantially cylindrical sector shaped vane located in each of the chamber sections of the displacement chamber, each of said vanes having longitudinal edges and curved surfaces, each of said vanes, independently of its momentary position during the course of said revolving movement contacting by means of said longitudinal edges said planar closure surfaces and at least with one of its curved surfaces of the associated cylindrical jacket sector of the associated chamber section along a contact line, each of the chamber sections of the displacement chamber and each of the vanes of the displacement device spanning an angle of at least 270° a chamber section and the therein arranged vane being angularly shifted with respect to the connected chamber section and its respective vane by the complement of the span angle for 360° means for dividing said displacement chamber into four sections, and a common intermediate section for parallel connecting in pairs said four sections.

Complete specn. 23 pages and 3 drawing sheets.

CLASS 32F₁ & F_{3c} & 55D₂, 147134

Int. Cl.-C07c 149/14.

PROCESS FOR THE PREPARATION OF N-SUBSTITUTED BIS-CARBAMOYL SULFIDE COMPOUNDS.

Applicant : UNION CARBIDE CORPORATION, AT 270 PARK AVENUE, NEW YORK, STATE OF NEW YORK 10017, UNITED STATES OF AMERICA.

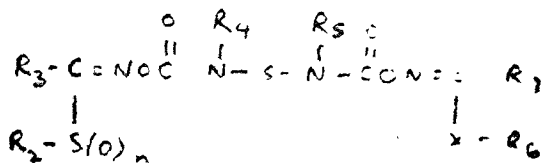
Inventor : THEMISTOCLES DAMASCENO JOAQUIM D.SILVA.

Application No. 1466/Cal/77 filed October 1, 1977.

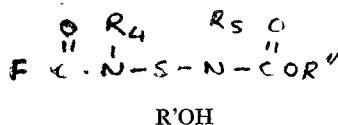
Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

5 Claims

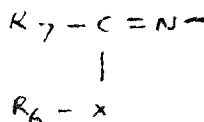
A method of preparing a compound of the formula shown in Fig. 1.



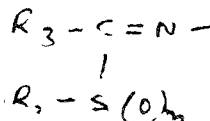
which comprises reacting a compound of the formula shown in Fig. 2.



in an inert solvent with an equivalent amount of a compound of the formula shown in Fig. 3.



in the presence of at least one equivalent of an acid acceptor wherein R' and R'' are not identical and individually groups of the either of the formulae shown in Fig. 4 and Fig. 5.



n is 1 or 2;

X is sulfur, sulfinyl or sulfonyl;

R₂, R₃, R₄, R₅, R₆ and R₇ are alkyl having from 1 to 8 carbon atoms; with the proviso that R₄ and R₅ are same.

Comp. Specn. 24 Pages.

Drg. 2 Sheets.

CLASS 127-I.
Int. Cl.-F16d 3/00.

147135

RIGID COUPLING.

Applicant : BBC BROWN BOVERI & COMPANY LIMITED, OF BADEN, SWITZERLAND.

Inventor : FELIX BERNASCONI.

Application No. 409/Cal/76 filed March 6, 1976.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

3 Claims

A rigid coupling between two rotating machines, one half of the coupling with a boss being centred in the other half having a recess, in which a centring ring (3) is located between the two halves (1, 2) of the coupling, and the centring ring (3) is conical in shape.

Comp. Specn. 7 Pages.

Drg. 1 Sheet.

CLASS 24B & F.
Int. Cl.-F16d 65/84, B60t 17/00.

147136

IMPROVEMENTS IN ROTATABLE BRAKING MEMBERS.

Applicant : GIRLING LIMITED, OF KINGS ROAD, TYSELEY, BIRMINGHAM 11, ENGLAND.

Inventor : PETER WILLIAM BROWN.

Application No. 504/Cal/76 filed March 22, 1976.

Convention date April 8, 1975/(14276/75) U.K.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

32 Claims

A rotatable braking member of the kind set forth for a vehicle brake in which the braking member has a cooling face spaced from and in direct heat transfer relationship with the braking surface, and a plurality of spaced cooling fins separate from the braking member are arranged adjacent to the cooling face in a relatively spaced relationship so that passages are defined between adjacent pairs of fins, the cooling fins having a co-efficient of thermal conductivity higher than that of the braking member and heat conducting mounting means are provided for securing the fins to the braking member and for maintaining the fins in the relatively spaced relationship, the heat conducting mounting means comprising a plurality of angularly spaced struts having a co-efficient of thermal conductivity higher than that of the braking member and providing a heat transmitting connection between all the fins and the cooling face, the fins being operative to dissipate heat to a flowable working medium within the passages, and at least one of the passages being substantially uninterrupted circumferentially with respect to the direction of rotation of the braking member.

Comp. Specn. 16 Pages.

Drg. 7 Sheets.

CLASS 94G.
Int. Cl.-B02c 19/00.

147137

PROCESS FOR PREPARATION OF ALLOYS BY MICROGRINDING OF MULTIPHASE METALS.

Applicant : COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH, RAFI MARG, NEW DELHI-1, INDIA.

Inventors : KANNAMPUZHA GOPAL GOPINATHAN AND DR. VALLAMPADUGAI SRINIVASARAGHAVAN ARUNACHALAM.

Application No. 1174/Cal/76 filed July 2, 1976.

Complete specification left August 31, 1977.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

4 Claims

A process for the preparation of alloys by micro-grinding of the constituents of multiphase metals powders in a commin-

tion apparatus of the type described to obtain composite products in micro or sub-micro size by chemical homogenisation and/or cold welding effect wherein the said comminution apparatus imparts kinetic energy to grinding media therein and the metal powders interact to form desired alloys in composite particles.

Prov. Specn. 6 Pages. Comp. Specn. 8 Pages. Drg. 3 Sheets.

CLASS 98E & G. 147138
Int. Cl.-F28d 15/00.

HEAT EXCHANGER.

Applicant : MASCHINENFABRIK AUGSBURG—NURNBERG, OF KATZWANGER STRASSE 101, AKTIENGES-
ELLSCHAFT 8500 NURNBERG, WEST GERMANY.

Inventors : HERMANN HEEREN AND LISELOTTE
KRAETSCHMER.

Application No. 410/Cal/77 filed March 22, 1977.

Appropriate office for opposition Proceedings (Rule 4,
Patents Rules, 1972) Patent Office, Calcutta.

14 Claims

Heat exchanger for indirect recooling of a heat transfer medium, e.g., water by air wherein the heat transfer medium has a relatively high heat transfer coefficient compared to air, characterized by two end walls (e.g. plates 3) in parallel and provided with holes, allied side walls (4) with heat transfer medium inlet and outlet as well as non-finned tubes with air flowing through them disposed between and sealed against said end walls.

Comp. Specn. 28 Pages. Drg. 7 Sheets.

CLASS 36A. & 190C. 147139
Int. Cl.-F04d 5/00.

A TRAVELLING WAVE GENERATING DEVICE FOR USE AS A PUMP, COMPRESSOR OR TURBINE.

Applicant : TYCO (INDIA) LIMITED, OF 3 WOOD-
BURN COURT, WOODBURN ROAD, CALCUTTA-700020,
WEST BENGAL, INDIA.

Inventor : KALI DAS CHAUDHURI.

Application No. 1773/Cal/77 filed December 27, 1977.

Appropriate office for opposition Proceedings (Rule 4,
Patents Rules, 1972) Patent Office, Calcutta.

8 Claims

A travelling wave generating device for use as a pump, compressor or turbine, said device comprising : a curved flow channel having an inlet port at its one end and an outlet port at its other end for the flow of fluid therethrough; a curved rigid impeller blade located inside said flow channel and having a curvature substantially the same as that of said flow channel; and eccentric drive means for driving the rigid impeller blade eccentrically but without any rotation relative to its centre of curvature within the flow channel so that every point on said impeller blade gyrates with an amplitude equal to twice the eccentricity of driving crank shaft.

Comp. Specn. 9 Pages. Drg. 4 Sheets.

CLASS 13A. 147140
Int. Cl.-A45C 1/06.

A CARRIER.

Applicant & Inventor : ANIL VERMAN AND HARISH
TALWAR, OF 17, CAMAC STREET, CALCUTTA-700 017,
INDIA.

Application No. 234/Cal/78 filed March 3, 1978.

Appropriate office for opposition Proceedings (Rule 4,
Patents Rules, 1972) Patent Office, Calcutta.

12 Claims

A carrier and particularly a wallet made of any suitable known material comprising a first and second flap, a first and second retaining members for retaining notes between said member and its respective associated flap, said flaps being held by said retaining members and to provide a base end and open end in a first position and, wherein, in a second position the base end becomes the open end and the open end becomes the base end.

Comp. Specn. 11 Pages.

Drg. 1 Sheet.

CLASS 98E. 147141
Int. Cl.-G01n 25/18.

SYSTEM FOR DETERMINING OR EVALUATING THE THERMAL CONDUCTIVITY OF HEAT INSULATING MATERIAL.

Applicant : THE FERTILIZER (PLANNING & DEVE-
LOPMENT) INDIA LTD., C.I.F.T. BUILDING, P.O. SIN-
DRI, DIST. DHANBAD, BIHAR, INDIA.

Inventors : HRISHIKESH CHANDRA ROY, HIMANSU
BHUSAN ACHARYA AND KRISHNA SHARMA.

Application No. 443/Cal/78 filed April 24, 1978.

Appropriate office for opposition Proceedings (Rule 4,
Patents Rules, 1972) Patent Office, Calcutta.

6 Claims

A system, for determining or evaluating the thermal conductivity of heat insulating materials, comprising a hollow test chamber, a pair of metallic rods, a lower one and an upper one of known thermal conductivity housed within the hollow of said chamber, a piece of the test material whose thermal conductivity is to be determined placed in between the said two metallic rods, the metallic rods and the test piece being all aligned together and remaining in one vertical plane, the said test chamber having at its bottom end of the hollow space, an insulation disc supported on a metallic plate, the upper end of the test chamber having secured thereto a spherometer type of device for measuring variations in lengths of the upper rod or said lower metallic rod resting on said insulation disc and having a heating arrangement around its lower part, said upper metallic rod having, if desired, a cooling arrangement around its top end, the top end of the said metallic rod also having a contact member above the same for operating the spherometer type device when the said system is in operation, thermocouples installed within the said hollow space along and at predetermined places of the said metallic rods and at the junctions of the metallic rods and the test piece, the said system further having heating arrangements around hollow space.

Comp. Specn 13 Pages.

Drg. 4 Sheets.

CLASS 169a. 147142
Int. Cl.-F41f 3/02.

ASSEMBLY FOR LAUNCHING A PROJECTILE.

Applicant : SOCIETE EUROPEENNEE DE PROPUL-
SION OF 3, AVENUE DU GENERAL DE GAULLE
92800—PUTEAUX, FRANCE.

Inventor : EMILE STAUFF.

Application No. 780/Cal/76 filed May 4, 1976.

Appropriate office for opposition Proceedings (Rule 4,
Patents Rules, 1972) Patent Office, Calcutta.

16 Claims

An assembly for launching a projectile, comprising a launch tube having a smooth or filed bore, a charge of gunpowder located in the tube for firing from the tube a projectile which is placed in the tube in front of the charge, a braking propellant located in the tube behind the gunpowder charge and carrying a ballast material, and means for sequential ignition of the gun powder charge followed by ignition of the braking propellant.

Comp. Specn. 13 Pages.

Drg. 1 Sheet.

CLASS 48D* & 64B. 147143
Int. Cl.-H01r 3/00.

A METHOD OF FITTING A PLASTICS INSERT OR INSERT ASSEMBLY WITHIN IN ELECTRICAL CONNECTOR AND AN ELECTRICAL CONNECTOR FORMED THEREBY.

Applicant : BUNKER RAMO CORPORATION, OF 900
COMMERCE DRIVE, OAK BROOK, ILLINOIS, UNITED
STATES OF AMERICA.

Inventors : JOHN KEITH CAMERON AND RONALD
FRANCIS KROLAK.

Application No. 2226/Cal/76 filed December 18, 1976.

Appropriate office for opposition Proceedings (Rule 4,
Patents Rules, 1972) Patent Office, Calcutta.

11 Claims

A method of fitting a plastics insert or insert assembly in snug retention between first and second opposed shoulders separated by a predetermined distance within an electrical connector housing, the insert or insert assembly having a dimension measured from an abutment surface, which abutment surface when the insert or insert assembly is fitted in the housing cooperates with said first shoulder, to and including a retention portion, which retention portion when the insert or insert assembly is fitted in the housing cooperates with said second shoulder, said dimension being greater than said predetermined distance, comprising the steps of providing said retention portion with a peripheral portion which is more easily permanently deformable by compressive stress than is the remainder of the periphery of the insert or insert assembly and which has a length greater than the difference between said predetermined distance and said dimension; providing the housing with deforming means in close juxtaposition with said second shoulder; moving the insert or insert assembly into the housing to a position in which said abutment surface is in contact with said first shoulder; and, during the last part of said movement of the insert or insert assembly into the housing, subjecting said peripheral portion to compression by said deforming means so that it is permanently deformed to provide a second abutment surface on the insert or insert assembly which is in engagement with said second shoulder.

Comp. Specn. 13 Pages.

Drg. 1. Sheet.

CLASS 108C₁.

147144

Int. Cl.-C21c 5/32, 7/00.

RENITROGENATION OF BASIC-OXYGEN STEELS DURING DECARBURIZATION.

Applicant: UNION CARBIDE CORPORATION, AT 270 PARK AVENUE, NEW YORK, STATE OF NEW YORK 10017 AND NATIONAL STEEL CORPORATION, 2800 GRANT BUILDING PITTSBURG, STATE OF PENNSYLVANIA 15219, UNITED STATES OF AMERICA.

Inventors: PAUL ARTHUR TICHAUER, JAMES STEPHEN ADAMS, HENRY DESMONT THOKAR.

Application No. 279/Del/77 filed September 30, 1977.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Delhi Branch.

9 Claims No drawings

In a process for the production of steel by decarburizing a ferrous melt contained in a vessel by blowing oxygen into the melt contained in a vessel by blowing oxygen into the melt from above the surface thereof, the improvement comprising: producing steel having a high nitrogen content, within a preselected range by:

(a) introducing a nitrogen-rich gas into the melt, simultaneously with said oxygen during the latter portion of the decarburization step, in an amount at least equal to 3 NM³ of nitrogen per metric ton of molten metal, and in such manner as to promote intensive interaction of the nitrogen-rich gas with the molten metal,

(b) refining the melt with the oxygen and nitrogen-rich gas by blowing the melt to a final manganese content at least as low as 0.10 percent, and

(c) maintaining the partial pressure of nitrogen in the vessel head-space at least equal to that calculated to be in equilibrium with the aim dissolved nitrogen content of the molten metal at 1600°C.

Comp. Specn. 15 Pages.

Drgs. Nil.

CLASS 9D. & 108B^{2a}.

147145

Int. Cl.-C22c 39/14.

PROCESS FOR PREPARING A FERROCHROMIUM BY USING A BLAST FURNACE.

Applicant: SHOWA DENKO KABUSHIKI KAISHA, OF 13-9, SHIBA DAIMON 1-CHOME, MINATO-KU, TOKYO, JAPAN.

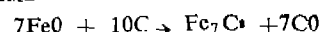
Inventors: TAMEKAZU SAITO, NITHUNOBU TANAKA, YUTAKA SAITO AND KENICH SAKAUE.

Application No. 436/Del/77 filed December 5, 1977.

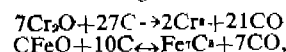
Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Delhi Branch.

4 Claims

Process for producing ferrochromium which comprises charging in a blast furnace (a) agglomerates containing a powder of chromium ore and a powder of carbonaceous reducing material and (b) lumpy coke, the ratio of said carbonaceous material in said agglomerates is set so that the minimum value of said ratio is in agreement with the amount necessary for reducing an iron ore in the chromium ore according to the formula



and the maximum value of said ratio is 1.2 times the amount necessary for reducing the iron oxide and chromium oxide in the chromium ore according to the formulae



the slag-forming composition in the charged materials being such that the ratio of

CaO (by weight %) in the slag

SiO₂ (by weight %) in the slag

ranges from 0.4 to 1.3, and further, the ratio of

Al₂O₃ (% by weight) + MgO (% by weight)

CaO (% by weight) + SiO₂ (% by weight) + MgO (% by weight) + Al₂O₃ (% by weight)

ranges from 0.4 to 0.8:

preheating a gas, selected from the group consisting of air and oxygen-enriched air having an oxygen content lower than 41% by volume, to a temperature from 200° to 1200°C, the air of said gas containing a moisture content of from 3 to 50 grams per one m³ of said air; blowing said preheated gas through the tuyeres of said blast furnace at a rate of from 10 to 30 m³/minute per one m² of the cross-sectional area of the blast furnace at the level of the tuyeres.

adjusting the gas pressure at the top of the blast furnace to a high absolute pressure of from 1 to 3 kg./Cm², thereby reducing said chromium ore to chromium carbide by said carbonaceous material, at a reduction degree of more than 80% in a region of the blast furnace where the chromium ore is softened;

melting and dropping said reduced chromium carbide from said softening region to a hearth of said blast furnace; and obtaining a ferrochromium containing more than 40% by weight of chromium and slag containing less than 5% of Cr₂O₃ from said hearth.

Comp. Specn. 35 Pages.

Drg. 2 Sheets.

CLASS 27-I & O.

147146

Int. Cl.-EO4b 7/00.

MANUFACTURING PROCESS FOR SELF-SUPPORTING FILMENTS, PARTICULARLY ROOFING PANELS AND PANELS FOR THE CONSTITUENT PART OF BUILDINGS AND AN APPARATUS FOR CARRYING OUT THE PROCESS.

Applicant: SOCIETE DE DIFFUSION ET DE RECHERCHES TECHNIQUES ET FINANCIERES S.A., OF AVENUE DU CHATEAU DE LA COUR 4, CH-3960 SIERRE.

Inventors: JACQUES FRAPART AND GILBERT MARGERIE.

Application No. 1967/Cal/76 filed October 29, 1976.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

13 Claims

Compact self-supporting element with varying layers, in particular panel for roofs and constituent parts of building, characterized by the fact that, at least one outside layer intended to be subject to traction and compression strains is composed of concrete obtained by mixing and setting of a hydraulic binding material with light aggregates, heavier

aggregates and one or several resins in emulsion or dispersion whose chemical liaison is assured by a bridging agent, the resin with silanes and the hydraulic binding material being made more dense and more resistant to compression and traction on the side of the layer which must be water and/or vapour-proof.

Comp. Specn. 19 Pages.

Drg. 2 Sheets.

CLASS 29D & 67C.
Int. Cl.-G06f 3/00.

147147

INTERFACE UNIT FOR EXCHANGING DATA BETWEEN A PROCESSOR AND A PERIPHERAL UNIT OPERATING ACCORDING TO THE TIME-DIVISION PRINCIPLE.

Applicant : SOCIETA ITALIANA TELECOMUNICAZIONI SIEMENS S.P.A. PIAZZALE ZAVATTAR 12, 20149 MILANO, ITALY.

Inventors : MARIO SPRINGOLO AND UMBERTO LORENZINI.

Application No. 1063/Cal/77 filed July 12, 1977.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

7 Claims

An interface unit adapted to permit exchange of data between a processor and a peripheral unit operating in accordance with the time-division principle, comprising a section, termed receiving section below, adapted to transfer data from the centralized processor to the peripheral unit, and a section, termed transmitting section below, adapted to control data exchange in the opposite direction, characterized in that the receiving section comprises a series-parallel register (SP) adapted to store messages generated by the processor (EC) and consisting of a first bit field indicating the address of the time slot to which the message in question relates, a second field indicating the type of message, and third field indicating the code of the message; the bits of the said second field being applied by way of a first multiplexer (MT₁) to a first control unit C(N₁) which signals (d) to the transmitting section (ST) reception of requests for carrying out predetermined operations when the message in question is detected to be a service message, and controls storing in a random-access memory, termed message memory (MM) below, of the bits of the said third field at the address indicated by the bits of the said first field when the message in question is detected to be a message to be sent to the said peripheral unit (UP), operative programme of the said first control unit (CN₁) being supplied to the message memory (MM) by a second multiplexer (MT₂) or a third multiplexer (MT₃), respectively; the operative programme of the said first control unit (CN₁) being interrupted for a time $\Delta t/2$, where Δt is the duration of a given time slot ϕ_i of the peripheral unit (UP), to carry out reading operations, the said interruptions being cyclicly carried out at time intervals of duration Δt , reading of data concerning a given time slot ϕ_i associated with the address A_i being effected during the time slot ϕ_{i-1} by making use of the address A_i obtained from that member of the peripheral unit which clocks the time slots ϕ .

Comp. Specn. 14 Pages.

Drg. 2 Sheets.

CLASS 156A.
Int. Cl. F04b 9/02 & 9/08.

147148

A HYDRAULICALLY OPERATED DOUBLE ACTING RECIPROCATING PUMP ASSEMBLY FOR PUMPING FLUID.

Applicant & Inventor : THIRUVENGADASWAMY VENKATACHALAM, 12-A, MARKET ROAD, RANIPET, NORTH ARCOT DISTRICT, TAMIL NADU.

Application No. 222/Mas/76 filed November 18, 1976.

Complete Specification left. November 16, 1977.

Post-dated to November 16, 1977.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

10 Claims

A hydraulically operated double acting reciprocating pump assembly for pumping fluid comprising a primary hydraulic pump, the piston of which is actuated by a conventional driving arrangement connected thereto, a secondary hydraulic pump, and a tertiary pump immersed within the fluid medium which is to be pumped, the said primary and secondary hydraulic pumps being interconnected through a hydraulic hose filled with a hydraulic fluid so as to actuate the piston of the said secondary hydraulic pump by actuating the piston of the said primary hydraulic pump; the piston rod of the said secondary hydraulic pump and that of the said tertiary pump is interlinked so that by operating the piston of the secondary hydraulic pump the piston of the tertiary pump is operated, said tertiary pump being provided with a pair of inlet and a pair of outlet valves, one of the said inlet valve and one of the said outlet valve are adapted to be opened during the upward stroke of the piston of the tertiary pump, while the other of the said inlet valve and the other of the said outlet valve are adapted to be opened during the downward stroke of the piston of the tertiary pump so that the fluid flows out through an outlet conduit during both upward and downward strokes of the piston of the tertiary pump.

(Com.—11 pages;

Drg.—one sheet)

CLASS : 195D.
I.C. B 67 C 9/00.

147149

"CONTAINER HAVING PRESSURE RELEASE DEVICE"

Applicant : P. R. MAILLORY & CO. INC, 3029, EAST WASHINGTON STREET, INDIANAPOLIS, INDIANA, U.S.A.

Inventor : WAYNE LOWRY LEFS.

Application No. 370/Bom/76. Filed on 20-10-76.

Appropriate office for opposition proceedings (Rule 4, Patents Rules 1972) Patent Office Branch, Bombay.

9 Claims

1. A container having a pressure release device in a wall thereof, said wall being deformed whereby to form channel means for permitting a portion of said wall to move outwardly, and a small, relatively undeformed section of said wall being positioned between adjacent portions of said channel means; whereby said outward movement causes concentrated forces to act on said relatively undeformed portion, which forces cause said relatively undeformed portion to rupture when said outward movement occurs.

Complete Specn. 17 pages, Drawing sheets—3 pages.

CLASS 77E+77d.
I.C. C 11 b 3/00.

147150

"A PROCESS OF DEGUMMING OF FATTY GLYCERIDES"

Applicant : CADBURY INDIA LIMITED, CADBURY HOUSE BHULABHAI DESAI ROAD, BOMBAY 400 026, INDIA.

Inventor : (1) RAGHURAM DEVIDAS SHENOY (2) ANANTHRAM GANAPATHY.

Application No. 415/BOM/1976. FILED ON 27.11.76.

Complete Specification left 14 November 1977.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, Bombay.

7 Claims

A process of degumming crude fatty glycerides which comprises adding sodium acetate and acetic acid buffer to the normally solid crude fatty glycerides in molten form, in the presence of phosphoric acid and citric acid and separating by methods known per se degummed fatty glycerides from the mixture so obtained.

Provisional specification 4 pages Complete specn. 6 pages.

CLASS : 87D.

147151

I.C. A63f 7/00, 9/00.

INDOOR CRICKET GAME.

Name of the Applicant : GULAM MAHIUDDIN RSUL-BHAI MANSURI 1048, JIVAN POLE, PANCHPATI, KALUPUR, AHMEDABAD-380 001, (GUJARAT STATE), INDIA.

Application No. 2/BOM/1977. FILED ON JAN 3 1977.

Complete Specification left 27 August, 1977.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972), Patent Office Branch, Bombay.

10 Claims

1. A device for playing an indoor game of cricket with a board and dices characterised in that there are provided (A) two sets of pawns representing two participating teams, (B) in board or chart referred to as ground sheet representing a cricket field divided into a plurality of zones each zone being further sub-divided into a plurality of sections representing pitch, bowler and wicket keeper positions and a number of possible positions for rest of fielders and various boundary positions inside the periphery of the field, each section being allotted a number and (C) three six-sided dices two of which are referred to as ball dices and the third as bat dice; the faces of the first dice being marked by one series of numerals and the faces of the second dice being marked by same or a different series of numerals, the faces of the third dice being marked with signs of e.g. + or —, X, X and + or — followed by a number, sign or addition or subtraction followed by a number thus e.g. —5, +10, and question mark i.e. "?"; position of ball and progress of game being determined by throw of the first two dices by representative of fielding team and throw of the third dice by representative of batting team, the numbers thrown by the first two dices being interpreted or treated arithmetically by the sign or signs thrown by the third dice and further interpreting the result with reference to a set of Rules such as herein prescribed.

Prov. Specn. 14 pages and 1 Drawing sheet.

Complete specn. 18 pages.

CLASS 143 D2.

147152

I.C. B 65 d 77/00.

A MACHINE FOR FORMING FILLING AND SEALING POUCHES.

Applicant : LARSEN & TOUBRO LIMITED LARSEN AND TOUBRO HOUSE BALLARD ESTATE BOMBAY 400 036 INDIA.

Inventor : ASHOK JAYANTILAL KOTHARI.

Application No. 108/Bom/77. Filed on 14th March, 77.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules 1972) Patent Office Branch, Bombay.

3 Claims

1. A machine for forming, filling and sealing pouches comprising a roll of heat sealable sheet material located behind a plow, the plow being slipped on a mandrel pipe leaving space for the sheet moving under tension from the roll, the plow being supported by a bracket held to the machine frame, the sheet guided by the plow forming a tubular foil on the mandrel pipe, the front of the plow adapted to bring together the edges of the sheet and turn them flat on one side on the tubular foil, and electric heating element housed in a vertical bar being adjustably supported on a hinged horizontal lever, the bar facing soft vertical bedding on the mandrel pipe under the turned edges of the tubular foil, the tubular element being formed by sealing vertically the turned edges, an inner pipe located concentrically inside and extending beyond the lower end of the mandrel pipe, the upper end of the inner pipe extending above the plow and having at its top a hopper to receive and feed a measure of subject material into the tubular element with its end sealed, a pair of horizontal jaws located below the inner pipe adapted to move opposite directions along a pair of horizontal shafts and the jaws with the shafts being adapted to move vertically guided by vertical pillars, each jaw housing electric elements for the transverse band sealing, the back jaw accommodating mid way between the heating element a pneumatically actuated spring controlled

longitudinal knife and the front jaw having cavity between the heating elements facing the position of the knife.

Complete specn pages 10.

Drawing sheets 5.

CLASS 154 I; 191.

147153

I.C. B41b 11/00.

A TYPE COMPOSING SYSTEM FOR DEV NAGARI SCRIPTS.

Applicant : LAXMAN SHRIDHAR WAKANKAR 63 KRISHNA NIWAS, 4TH FLOOR, MANGALWADI, GIRGAUM, BOMBAY-400 004, STATE OF MAHARASHTRA, INDIA.

Application No. 301/BOM/1977. FILED ON OCT. 15, 1977.

Appropriate office for opposition proceedings (Rule 4, Patent Rules, 1972), Patent Office Branch, Bombay.

6 Claims

1. A type composing system for teleprinting, typewriter and telex and the like operations in the Dev Nagari Script accommodated on 56 keys available on the keyboard, wherein the letters on the types of the composing system are given a left side tilt to the headline and the over hanging vowel ascenders and the downhanging vowel descenders are pulled out from the main sign enabling the typing in the Dev Nagari Script be done linearly with the elimination of dead keys, dead off-set keys and half movement keys.

Complete Specn. 7 pages & 5 Drawing sheets.

CLASS 40 I; 89.

147154

I.C. AO 1 g 15/00, GO 1 w 1/00.

A DEVICE FOR SIMULATING OUT DOOR WEATHER CONDITIONS.

Applicant : JYOTI LIMITED P.O. CHEMICAL INDUSTRIES INDUSTRIAL AREA BARODA 390 003 INDIA.

Inventor : DR. KUNAL BASU.

Application No. 76/Bom/78 filed on 14-3-78.

Appropriate office for opposition proceedings (Rule 4, Patent Rules 1972) Patent Office Branch, Bombay.

6 Claims

1. A device for simulating outdoor weather conditions, comprising an enclosure within which is placed a drum to be rotated by an external prime mover, lower section of the said drum being immersed in a trough of water, said drum having means to removably fix a metallic or non metallic specimen thereto; there being provided light sources within the said enclosure to light the said drum with ultra violet and infra red radiation.

Complete specn 5 pages, drawing sheets 3.

CLASS 69 I.

147155

Int. Cl. H 01h 45/00, 47/00.

AN OPTICALLY COUPLED SOLID STATE D.C. INPUT RELAY DEVICE.

Applicant : TATA ENGINEERING AND LOCOMOTIVE COMPANY LIMITED BOMBAY HOUSE, 24 HOMI MODI STREET, FORT, BOMBAY-400 023 MAHARASHTRA—INDIA.

Inventor : (1) DEEPAK CHANDULAL VAIDYA (2) KISHOR MANOHAR KARANDIKAR.

Application No. 144/BOM/78. FILED ON MAY 9, 1978.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules 1972) Patent Office Bombay Branch.

9 Claims

An optically coupled solid state d.c. input relay device comprising an input circuit having a signal sensing means connected between a positive signal input terminal and a negative signal input terminal; an output circuit having an output stage connected between a positive supply input terminal and a negative supply input terminal, said output stage having an

output terminal which functions as the relay output; said output circuit being optically coupled to said input circuit by an optical isolator comprising a light emitting diode connected in said input circuit and a photo transistor connected in said output circuit.

Complete Specn.—9 pages Drawing—1 sheet.

CLASS 28 C+D. 147156
I.C. F 24 c 15/14.

A DETACHABLE DRIP TRAY FOR USE IN A LOW PRESSURE GAS HOT PLATE FOR COLLECTING SPILLAGE.

Applicant & Inventor : GOVIND DADODA THAKOOR
ORIENTAL METAL PRESSING WORKS PVT. LTD. 131,
KORIT, BOMBAY-400 018, MAHARASHTRA, INDIA.

Application No. 188/Bom/78. Filed on 22nd June, 78.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, Bombay.

5 Claims

1. A detachable drip tray for use in a low pressure gas hot plate for collecting spillage having an axial hole periphery whereof defines an upward bent and the lip of the tray is adapted to be detachably mountable on the periphery of the opening(s) on top of the hot plate body.

Complete specn. 5 pages drawing 4 sheets.

CLASS 75, 126 A+D. 147157
I.C. GO 1 p 3/00.

AN ELECTRONIC PHOTOTACHOMETER FOR MEASURING THE rpm OF A ROTATING BODY OR THE RATE OF RECIPROCATION OF A RECIPROCATING.

Applicant : TATA ENGINEERING AND LOCOMOTIVE COMPANY LIMITED BOMBAY HOUSE 24, HOMI MODY STREET, FORT BOMBAY-400 001, MAHARASHTRA, INDIA.

Inventor : 1. SHARADCHANDRA LAXMAN RAO PAWNASKAR AND 2. SANJIV NARENDRA KULKARNI.

Application No. 236/Bom/78. Filed August 10, 78.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, Bombay.

9 Claims

1. An electronic phototachometer for measuring the rpm of a rotating body or the rate of reciprocation of a reciprocating body comprising a press and release switch, a self controlled power supply system, a light source, a photosensitive device circuit, a signal conditioner, a digital display processor and digital display all being housed in a housing such that the press and release switch, the light source, the photosensitive device circuit, the signal conditioner, the digital display processor and the digital display are connected to the self controlled power supply system and the photosensitive device circuit is connected to the digital display through the signal conditioner and the digital display processor.

Complete Specification 7 pages, and 1 drawing sheet.

OPPOSITION PROCEEDINGS

An opposition has been entered by Ruston & Hornsby (India) Limited to the grant of a patent on application No. 146124 made by Kirloskar Oil Engines Ltd.

PATENT SEALED

139092 144661 144685 145443 145516 145530 145568 145685
145924 146140 146142 146144 146146 146155 146156 146166
146173 146176 146180 146182 146185 146186 146187 146188
146191 146194 146195 146199 146209 146218 146221 146222

AMENDMENT PROCEEDINGS UNDER SECTION 57

Notice is hereby given that Kharkovsky Politekhicheskyy Institut Imeni V. I. Lenina, of Kharkov, Ustisa Frunze 21,

USSR, and others, have made an application under Section 57 of the Patents Act, 1970 for amendment of the specification of their Patent No. 146427 for "Process for recovering anthracene from crude anthracene". The amendments are by way of correction to define the invention more clearly. The application for amendment and the proposed amendments can be inspected free of charge at the Patent Office, 214, Acharya Jagadish Bose Road, Calcutta-17 on any working day during the usual office hours or copies of the same can be had on payment of the usual copying charges. Any person interested in opposing the application for amendment may file a notice of opposition on the prescribed form 30 within three months from the date of this notification at the Patent Office, Calcutta. If the written statement of opposition is not filed with the notice of opposition, it shall be left within one month from the date of filing of the said notice.

REGISTRATION OF ASSIGNMENTS, LICENCES, ETC. (PATENTS)

Assignments, licences or other transactions affecting the interests of the original patentees have been registered in the following cases. The number of each case is followed by the names of the parties claiming interests :—

107306.—M/s. Barber-Colman Company.

119032.—Do

135747.—M/s Hung & Moscrop (Textile Machinery) Limited.

PATENTS DEEMED TO BE ENDORSED WITH THE WORDS "LICENCES OF RIGHT"

The following patents are deemed to have been endorsed with the words "Licences of right" under Section 87 of the Patents Act, 1970. The dates shown in the crescent brackets are the dates of the patents.

No.	Title of the invention
136887 (29.7.72)	Process for the fractional distillation of a polymerable mixture.
137818 (4.11.72)	Conversion of asphaltene containing charge stock.
137894 (24.11.72)	A method of producing zinc vapour or cadmium vapour.
137970 (16.4.73)	Process for preparing 6-[a-guanilylureido-alkanylamino] arcylamino] penicillanic acids.
137987 (1.6.73)	Process for the preparation of dialkyl acetals of heterocyclic ureidoacetaldehyde and their water-soluble salts.
138115 (3.11.73)	Process for making cement clinker by burning raw materials.
138167 (1.12.72)	A method for reforming hydrocarbons.

RENEWAL FEES PAID

95967 96408 96449 96535 96620 96707 96743 97387 98697
99029 101760 101936 102204 102336 102337 102347 102500
102514 102546 102599 102670 102671 102986 104062 106435
106768 107943 107986 108138 108175 108239 108478 108782
108820 109177 109268 110418 110575 111211 111232 111586
111602 111659 111815 111833 112240 11243 112454 112445
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 142008 142057 142077 142158 142161 142173 142453 142595
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 132940 132959 132960 132961 132971 132975 132976 132978
 132982 132999 133010 133024 133043 137298 137427 138390
 139988 141280 142953 145784.

REGISTRATION OF DESIGNS

The following designs have been registered. They are not open to inspection for a period of two years from the date of registration except as provided for in Section 50 of the Designs Act, 1911.

The date shown in each entry is the date of registration of the design included in the entry.

Class 1. No. 148138. Sundeep Industries of 250-D, Udyog Bhavan, Worli, Bombay-400025. Maharashtra State, an Indian Proprietary Firm "Wiper Blade" February 27, 1979.

Class 1. No. 148145. Geep Flashlight Industries Limited of 28-South Road, Allahabad, Uttar Pradesh, India, an Indian Company. "Torch". March 6, 1979.

Class 1. No. 148146. Geep Flashlight Industries Limited, of 28-South Road, Allahabad, Uttar Pradesh, India, an Indian Company. "Torch". March 6, 1979.

Class 1. No. 148147. Geep Flashlight Industries Limited, of 28-South Road, Allahabad, Uttar Pradesh, India, an Indian Company. "Torch". March 6, 1979.

Class 1. No. 148148. Geep Flashlight Industries Limited, of 28-South Road, Allahabad, Uttar Pradesh, India, an Indian Company. "Torch". March 6, 1979.

Class 1. No. 148149. Geep Flashlight Industries Limited, of 28-South Road, Allahabad, Uttar Pradesh, India, an Indian Company. "Torch". March 6, 1979.

Class 1. No. 148154. Metal and Arts, an Indian Partnership Firm of 91-C, Lattice Bridge Road, Tiruvanniyur, Madras-600041, Tamil Nadu, India. "A Dish". March 7, 1979.

Class 1. No. 148155. Metal and Arts, an Indian Partnership Firm, of 91-C, Lattice Bridge Road, Tiruvanniyur, Madras 600041, Tamil Nadu, India. "A Freeze Jug". March 8, 1979.

Class 1. No. 148157. Metal and Arts, an Indian Partnership Firm, of 91-C, Lattice Bridge Road, Tiruvanniyur, Madras-600041, Tamil Nadu, India. "A Coffee Pt". March 9, 1979.

Class 1. No. 148158. Metal and Arts, an Indian Partnership Firm, of 91-C, Lattice Bridge Road, Tiruvanniyur, Madras-600041, Tamil Nadu, India. "A Tea Pot". March 9, 1979.

Class 1. No. 148204. Vijay Prabhakar Dave, an Indian National, Shyam Nirmal Apartment Narsingh Lane, S. V. Road, Malad (West), Bombay-400064, Maharashtra, India. "Handrest". March 23, 1979.

Class 1. No. 148208. Susheel Kumar Arya of H-13, Lajpat Nagar III, New Delhi-110024, India, an Indian National. "Electrostatic Photocopying Machine". March 27, 1979.

Class 1. No. 148210. Abdul Majid Trading as Handicrafts industries, Idgah Road, Moradabad, Uttar Pradesh, an Indian National. "Container". March 29, 1979.

Class 1. No. 148217. Abdul Hafeez Khan & Sons, Prince Road, Moradabad, Uttar Pradesh, India, an Indian Partnership Concern. "Hukka". March 29, 1979.

Class 1. No. 148305. Gulf Export Corporation, Kisrol, Chowki Hasan Khan, Moradabad-244001, Uttar Pradesh, India, an Indian partnership firm. "Hukka". April 16, 1979.

Class 1. No. 148393. Hasman Industries, Kamruddin Industrial Estate, Safaid Pool, Kurla Andheri Road, Bombay-400072, Maharashtra State, an Indian Proprietary Firm. "Throttle Lock". May 1, 1979.

Class 1. No. 148424. Raj Sheet Metal Engineering Works, an Indian registered partnership firm, having its office at : Dharampur Road, Attak Pardi, P.O. Abrama, Bulsar (W.R.). Gujarat, India. "Water Jug". May 7, 1979.

Class 1. No. 148490. Malbros Industries, 1816, Chandni Chowk, Delhi-110006, an Indian Partnership Concern. "Bottle-can Opener". May 30, 1979.

Class 1. No. 148610. Shanti Electric Instruments, A Registered Partnership Firm of plot A-54, Marol Industrial Area, Opp : Marol Bus Depot, M.I.D.C. Andheri (Estate, Bombay-400093,) Maharashtra, India. "Insulation Tester". July, 1979.

Class 1. No. 148638. Ali Hyderali Haideri, an Indian Citizen, B1/1, G.I.D.C. Industrial Estate Selvas Road, Vapi Dist : Bulsar, Gujarat. "A Tool Holder". July 16, 1979.

Class 3. No. 148136. Pioneer Plastic Works Private Limited, 9, Ezra Company. "Polyethylene Basket". February 26, 1979.

Class 3. No. 148144. Gupta Rubber Factory, Plot No. 35, Channa Mal Park, Near Manohar Park New

- Delhi, Union Territory of India, India a Proprietorship Concern. "Tennis Ball". March 2, 1979.
- Class 3. No. 148153. M/s. D. S. Brothers, 41/78, Punjabi Bagh, Delhi, an Indian National Partnership Concern. "Tricycline". March 7, 1979.
- Class 3. No. 148163. (Mrs.) Uma Manchanda, an Indian National of No. J, 14th Main Road, Vasanta Nagar, Bangalore-560 052, Karnataka. "A Wiper and Cleaner". March 14, 1979.
- Class 3. No. 148164. Dr. Jose Thaikattil, Physician, University Health Centre, P.O. Calicut University, Kerala-673635, India, an Indian National. "Funnel". March 14, 1979.
- Class 3. No. 148174. Irwin's Boat Yard, A Registered Partnership Firm of 23-31-5, Thomson Street, Visakhapatnam-530001, Andhra Pradesh, India. "A surf Landing Boat". March 15, 1979.
- Class 3. No. 148175. M/s. Royal Industries, A-4, Group Industries, Wazirpur, Delhi-110052, an Indian partnership concern. "Jug". March 15, 1979.
- Class 3. No. 148183. Fairdeal Traders, an Indian Sole Proprietors' firm, carrying on business at 232/3B Mangaldas Bldg., Mangaldas Road, 1st Floor, Bombay-400002, Maharashtra, India. "Closure". March 19, 1979.
- Class 3. No. 148184. Allied Instruments Pvt. Ltd., a company incorporated under the Indian Companies Act, 1956 of 30, CD, Government Industrial Estate, Kandivli, Bombay-400067, Maharashtra, India. "Container". March 19, 1979.
- Class 3. No. 148191. Larsen & Toubro Limited of L&T House, Ballard Estate, Bombay-400038, Maharashtra, India, an Indian Company. "Switch". March 23, 1979.
- Class 3. No. 148202. Plastella (A partnership firm duly registered under the Act), of 91, Swami Vivekanand Road, Borivli, Bombay-400092, State of Maharashtra, India. "Container". March 27, 1979.
- Class 3. No. 148203. Plastella (A registered partnership firm) of 91, Swami Vivekanand Road, Borivli, Bombay-400092, State of Maharashtra, India. "Tiffin Box". March 27, 1979.
- Class 3. No. 148207. Susheel Kumar Arya of H-13, Laipat Nagar III, New Delhi-110024, India, an Indian National. "Electrostatic Photocopying Machine". March 27, 1979.
- Class 3. No. 148222. Jagson Plastics, 7440, Tel Mill Street, Ram Nagar, New Delhi-110053, an Indian partnership concern. "Pen Stand". April 2, 1979.
- Class 3. No. 148341. Mahendra Popatlal Navalakha, an Indian Citizen, 38, Shankarshet Road, Poona-411009, Maharashtra, India. "A Knapsack Sprayer". April 19, 1979.
- Class 3. No. 148384. Arora Plastics Private Limited, Deonar, Govindi Station Road, Bombay-400088, Maharashtra State, India, a Private Limited Company. "Sliding Stationery Tray". April 27, 1979.
- Class 3. No. 148433. Shroff Multi Plast, Prabhadevi Industrial Estate, 1st Floor Unit No. 12, Opp: Sane Guruji Udyan, Prabhadevi, Bombay-400025, Maharashtra State, an Indian Partnership Firm. "Container". May 8, 1979.
- Class 3. No. 148443. Bata India Limited. A Public Limited Company, of 30, Shakespeare Sarani in the Town of Calcutta, West Bengal. "Chappal". May 11, 1979.
- Class 3. No. 148454. Dr. Jose Thaikattil, Physician, University Health Centre, P.O. Calicut University, Kerala-673635, India, an Indian National. "Comb". May 15, 1979.
- Class 3. No. 148455. Dr. Jose Thaikattil, Physician, University Health Centre, P.O. Calicut University, Kerala-673635, India, an Indian National. "Comb". May 15, 1979.
- Class 3. No. 148456. Dr. Jose Thaikattil, Physician, University Health Centre, P.O. Calicut University, Kerala-673635, India, an Indian National.
- Class 3. No. 148457. Dr. Jose Thaikattil, Physician, University Health Centre, P.O. Calicut University, Kerala-673635, India, an Indian National. "Comb". May 15, 1979.
- Class 3. No. 148458. Dr. Jose Thaikattil, Physician, University Health Centre, P.O. Calicut University, Kerala-673635, India, an Indian National. "Comb". May 15, 1979.
- Class 3. No. 148459. Dr. Jose Thaikattil, Physician, University Health Centre, P.O. Calicut University, Kerala-673635, India, an Indian National. "Comb". May 15, 1979.
- Class 3. No. 148535. Lakme Limited, of Bombay House, Homi Mody Street, Fort, Bombay-400023, Maharashtra, India. "Bottle". June 18, 1979.
- Class 3. No. 148572. B. R. Plastic Industries of 5438, Basti Harphool Singh, Sadar Thana Road, Delhi-110006, an Indian Partnership Concern. "Pen Stand". June 28, 1979.
- Class 3. No. 148611. Paramount Industrial Corporation, B-24/2, Wazirpur Industrial Area, Delhi-110052, an Indian Partnership Firm. "Box". July 9, 1979.
- Class 3. No. 148612. Moona Plastic Industries, Subhash Marg, Jakeshwari East, Bombay-400060, Maharashtra State, an Indian Partnership Firm. "Loop Closure-cum-Sale". July 10, 1979.
- Class 3. No. 148613. Moona Plastic Industries, Subhash Marg, Jakeshwari East, Bombay-400060, Maharashtra State, an Indian Partnership Firm. "Pur-ing Spout-cum-Closure". July 10, 1979.
- Class 4. No. 148161. The Mahalakshmi Glass Works Private Limited of Dr. E. Moses Road, Jacob Circle, Bombay-400011, Maharashtra State, "Bottle". March 12, 1979.
- Class 5. No. 148310. TDK Electronics Co. Ltd., A Japanese Corporation, of No. 13-1, Nihonbashi 1-Chome, Chuo-Ku, Tokyo, Japan.
- Class 5. No. 148425. Trescho Incorporation of 288/90, Nagdevi Street, 1st Floor, Room No. 12-A, Bombay-400003, State of Maharashtra, India, A Partnership Firm. "Cartons". May 7, 1979.
- Class 10. No. 148187. Industrial & Commercial Traders, Swastik Industrial Compound, Ram Baugh, Swami Vivekanand Road, Malad (West), Bombay-400064, Maharashtra, India, an Indian Partnership Firm. "Footwear". March 20, 1979.
- Class 10. No. 148309. Bintu Plastic Industries, 4/5, Kali Prasanna Sinchi Road, Cossipore, Calcutta-700002, West Bengal, an Indian Partnership Firm. "Shoes". April 16, 1979.
- Class 10. No. 148392. Dardani AG, a Swiss Company, of Engelgasse 9, 4052 Basle, Switzerland. "Footwear". April 30, 1979.
- Class 10. No. 148537. Vijay Electricals, Swastik Industrial Compound, Ram Baug, S. V. Road, Bombay-400064, Maharashtra, an Indian Partnership Firm. "Footwear". June 18, 1979.

S. VEDARAMAN,
Controller General of Patents,
Designs and Trade Marks.